



**ST JOSEPH'S INSTITUTION
END-OF-YEAR EXAMINATION 2020
YEAR 1**

CANDIDATE
NAME

CLASS

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INDEX
NUMBER

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GEOGRAPHY

28 September 2020

Additional Materials : Writing Paper

**1 hour 45 minutes
(0800 – 0945)**

READ THESE INSTRUCTIONS FIRST

Write your class, index number and name on all the work you hand in.

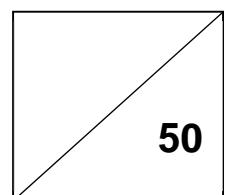
Write in dark blue or black pen on both sides of the paper.

Do not use staples, paper clips, glue or correction fluid.

Start each section on a **separate writing paper**.

Submit Sections A, B and C separately.

The number of marks is given in brackets [] at the end of each question or part question.



This document consists of **12** printed pages including this cover page.

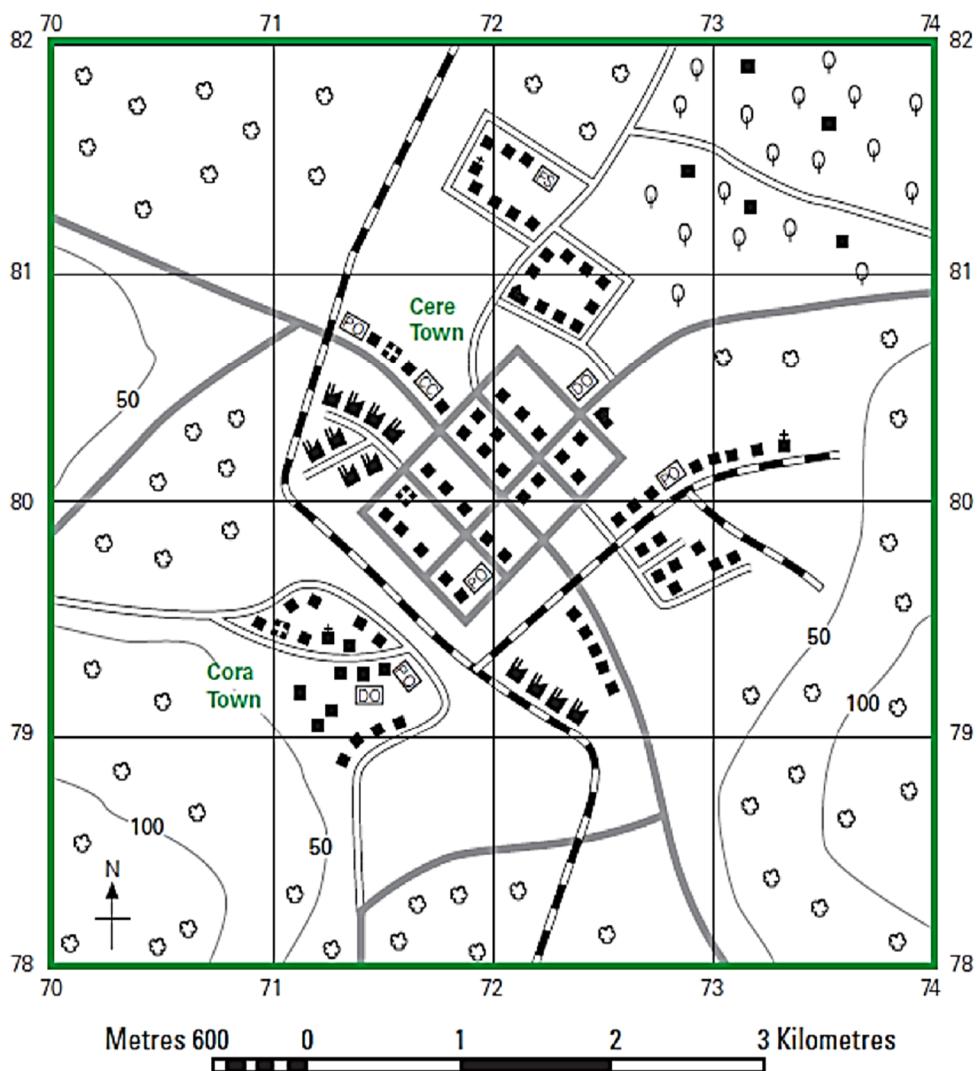
[Turn Over]

SECTION A: (10 marks)
Topographic Map Reading

Answer **ALL** questions.

Write your answers on the **Writing Paper** provided.

1. Study the section of map extract of Cere and Cora Town, central Italy, and answer the questions that follow.



LEGEND

Building	—■	Factory	—■	Railway track	—
District office	—□	Fire station	—□	Shrubs	—○
School	—■	Community centre	—□	Rubber plantation	—○
Police station	—□	Post office	—□	Contours (in metres)	—50
Hospital	—+	Major road	—		
Church	—+	Minor road	—		

(a) State the 4-figure grid square of the hospital found at Cere Town. [1]

(b) The railway track and the minor road intersects at a particular point on the map. Provide the 6-figure grid reference of the intersection point. [1]

(c) (i) Describe the locations of the post offices on the map. [2]

(ii) Give a reason for the locations described in (c)(i). [1]

(d) Name a physical feature found in grid square 7178. [1]

(e) State a possible use of the buildings found on the northeastern part, grid square 7381, of the map. [1]

(f) What is the main type of transport in Cora Town? [1]

(g) (i) Bala visited the fire station and decided to head to the community centre. In which direction would Bala be heading towards? [1]

(ii) Calculate the straight-line distance travelled by Bala. [1]

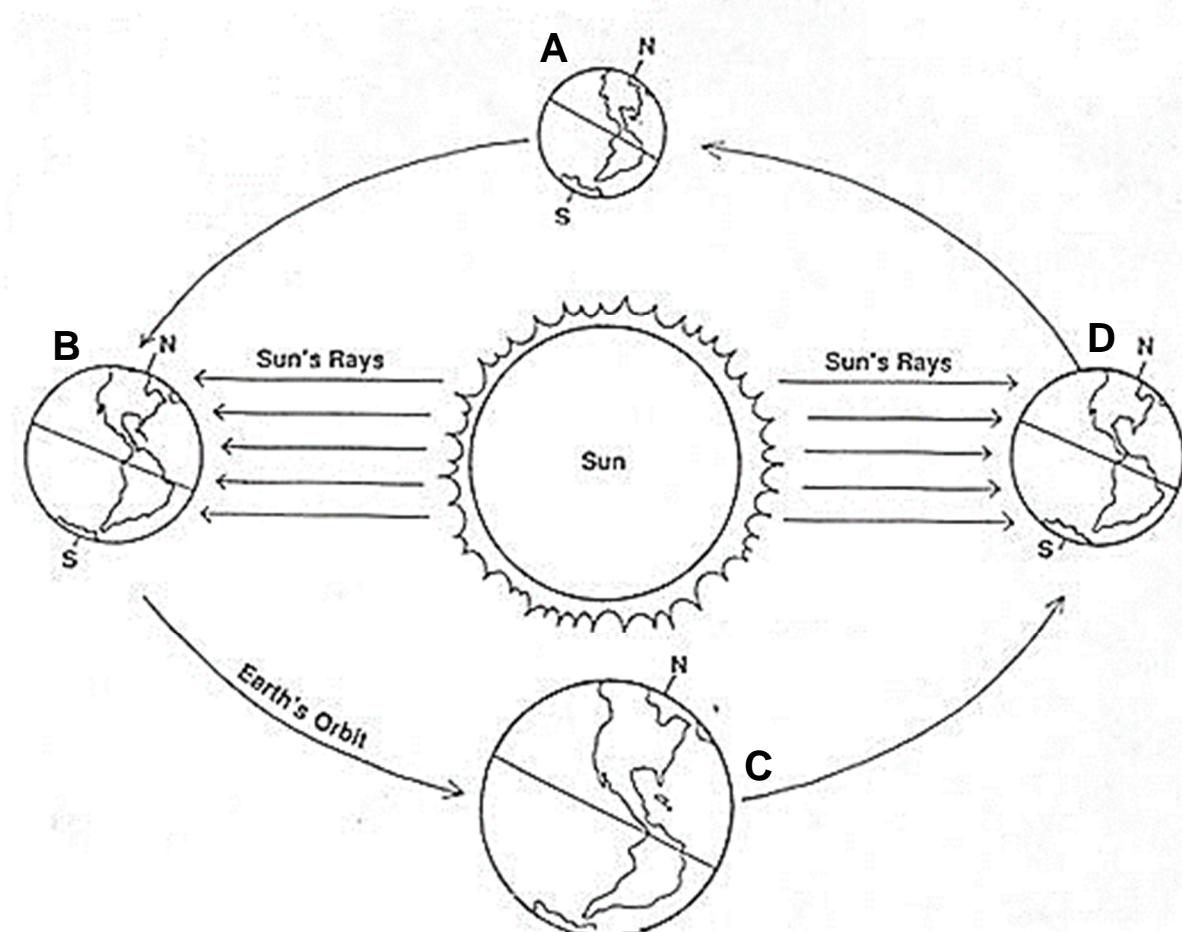
SECTION B: (32 marks)**Data-response Questions (4 x 8 marks)**

Answer **ALL** questions.

Write your answers on a fresh piece of **Writing Paper**.

2.(a) Figure 1 shows the revolution of the earth around the sun.

Fig. 1



Source: <https://i.pinimg.com/originals/fc/4c/d9/fc4cd92d66e74830ece0d07d3163f5ce.jpg>

(i) Study **Fig. 1** and identify the **two** positions (**A**, **B**, **C** or **D**) where the phenomenon, midnight sun*, will occur. [2]

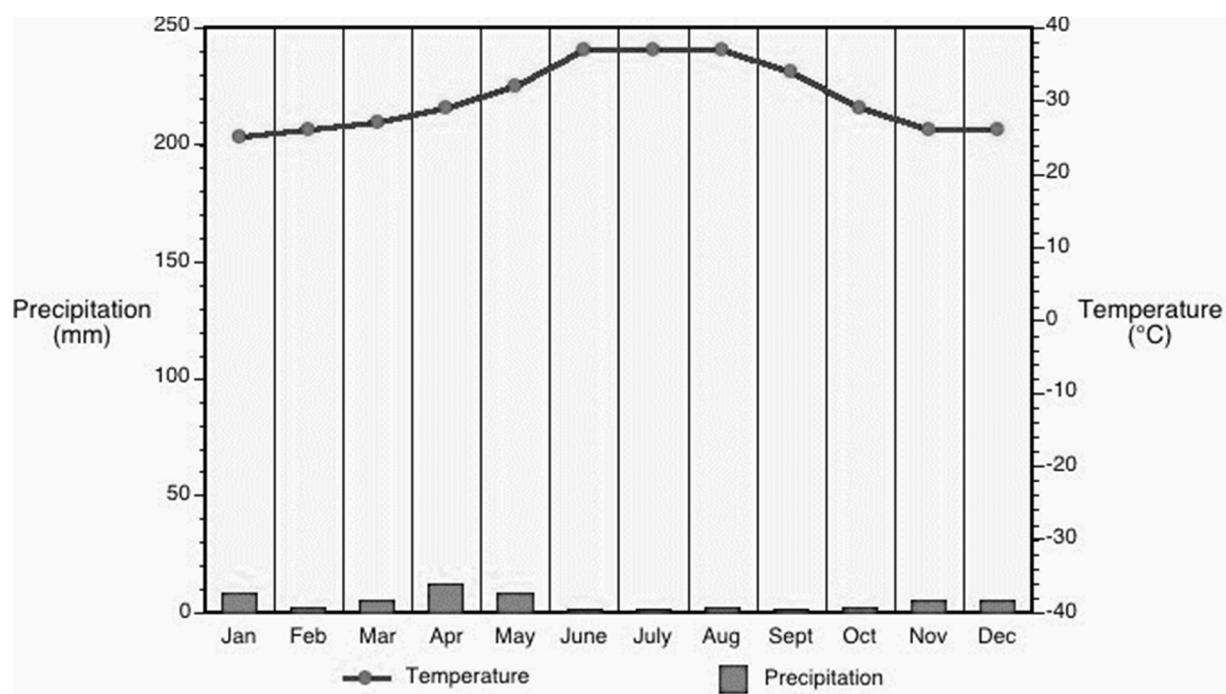
*Midnight sun is a natural phenomenon when the sun remains visible at midnight.

(ii) Study **Fig. 1** and explain why midnight sun occurs. [2]

2.(b) Figures 2A and 2B show the climographs of 2 deserts.

Fig. 2A

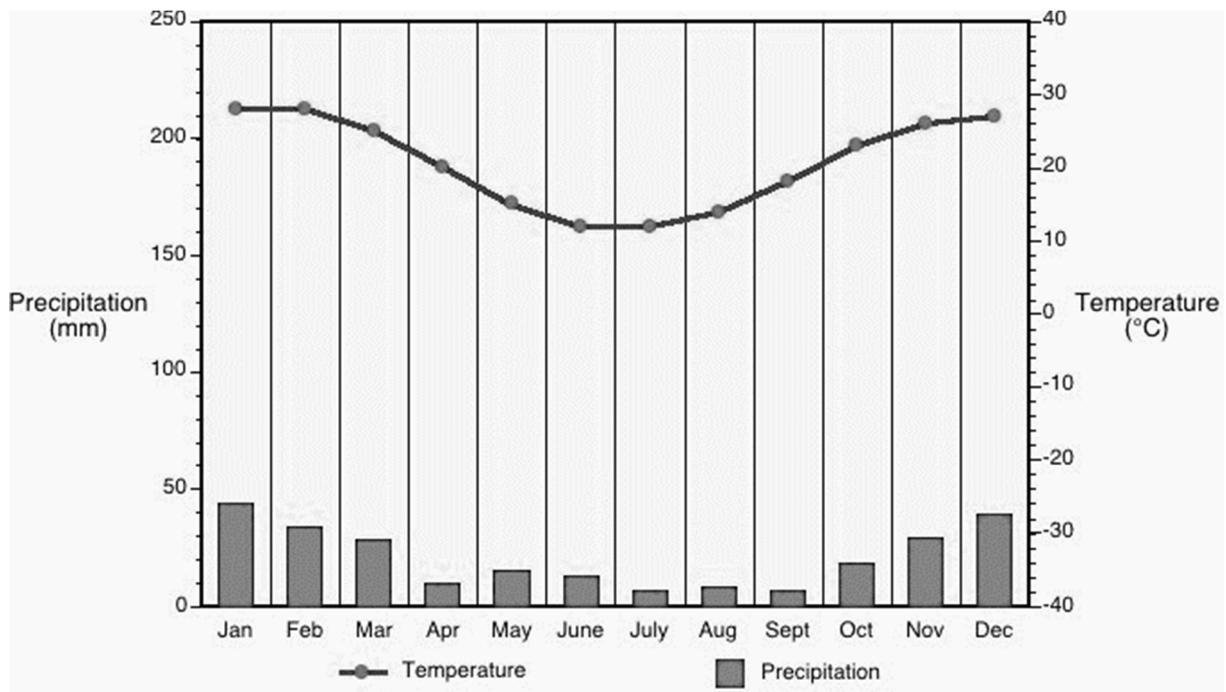
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Yearly
Temp. (°C)	25	26	27	29	32	37	37	37	34	29	26	26	30
Precip (mm)	8	2	5	12	8	1	1	2	1	2	5	5	52



Source: <http://www.physicalgeography.net/fundamentals/7v.html>

Fig. 2B

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Yearly
Temp. (°C)	28	28	25	20	15	12	12	14	18	23	26	27	21
Precip (mm)	44	34	28	10	15	13	7	8	7	18	29	39	252

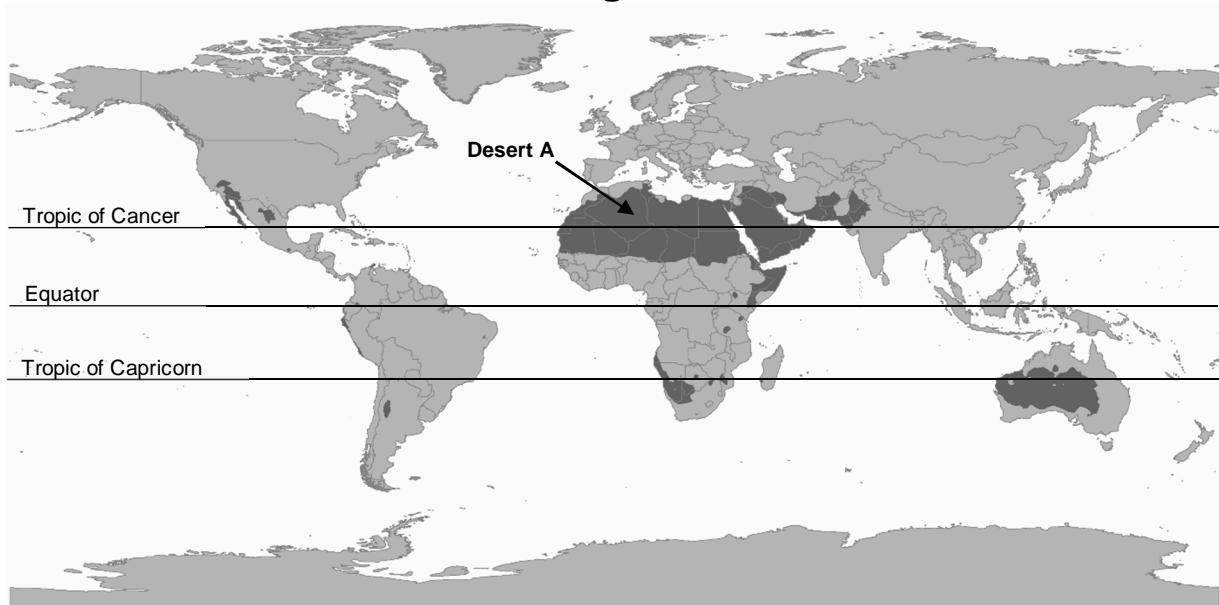


Source: <http://www.physicalgeography.net/fundamentals/7v.html>

- (i) Study **Fig. 2A** and **Fig. 2B** and identify the figure which shows an arid [1] tropical environment in the **Southern Hemisphere**.
- (ii) Study and use **Fig. 2A** and **Fig. 2B** to explain and support your [3] answer in (b)(i).

3. Figure 3 shows a map indicating the locations of tropical deserts.

Fig. 3



Source: <https://i.pinimg.com/originals/99/7c/60/997c60f1322ae79e2ebb54bbc73b07d0.png>

- (a) Study **Fig. 3** and describe the spatial distribution of tropical deserts indicated in darker shade. [3]
- (b) Study **Fig. 3** and identify **Desert A**. [1]
- (c) With the use of a well-labelled diagram, explain how Desert A is formed. [4]

4.(a) Figure 4 shows a tropical desert area.

Fig. 4



Source: <https://softypapa.files.wordpress.com/2014/12/>

- (i) Study and use **Fig. 4** to describe the tropical desert landscape. [2]
- (ii) Study **Fig. 4** and explain how the ground of the tropical desert look the way it does. [2]

4.(b) Figure 5 shows a type of landform created by wind in a desert.

Fig. 5

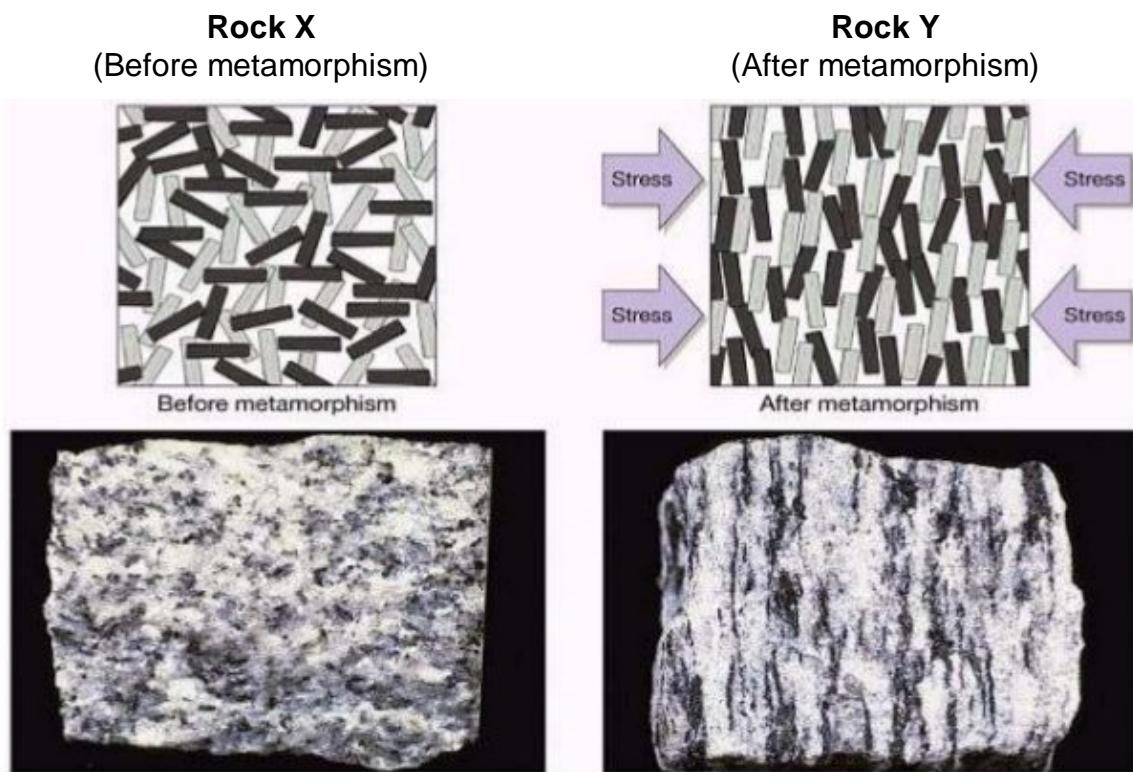


Source: <https://microbesinthemud.files.wordpress.com/2014/07/>

- (i) Study **Fig. 5** and explain how the landform was created by wind. [3]
- (ii) Study **Fig. 5** and describe a factor which may change the appearance [1] of the landforms.

5.(a) Figure 6 shows diagrams of a rock, before and after metamorphism.

Fig. 6



Source: <https://storymaps.arcgis.com/stories/086309c033cf4bd9a1632aa931162edc>

(i) Study and use **Fig. 6** to describe the change in appearance after the [2] rock has undergone metamorphism.

(ii) Give an example of a rock before metamorphism (**Rock X**) and a [2] corresponding example of the rock that it will become after metamorphism (**Rock Y**).

- Rock X (before metamorphism)
- Rock Y (after metamorphism)

5.(b) Figure 7 shows the ancient ruins of Angkor Wat Temple in the Southeast Asian country of Cambodia.

Fig. 7



Source: <https://www.ancient-origins.net/sites/default/files/field/image/angkor-wat.JPG>

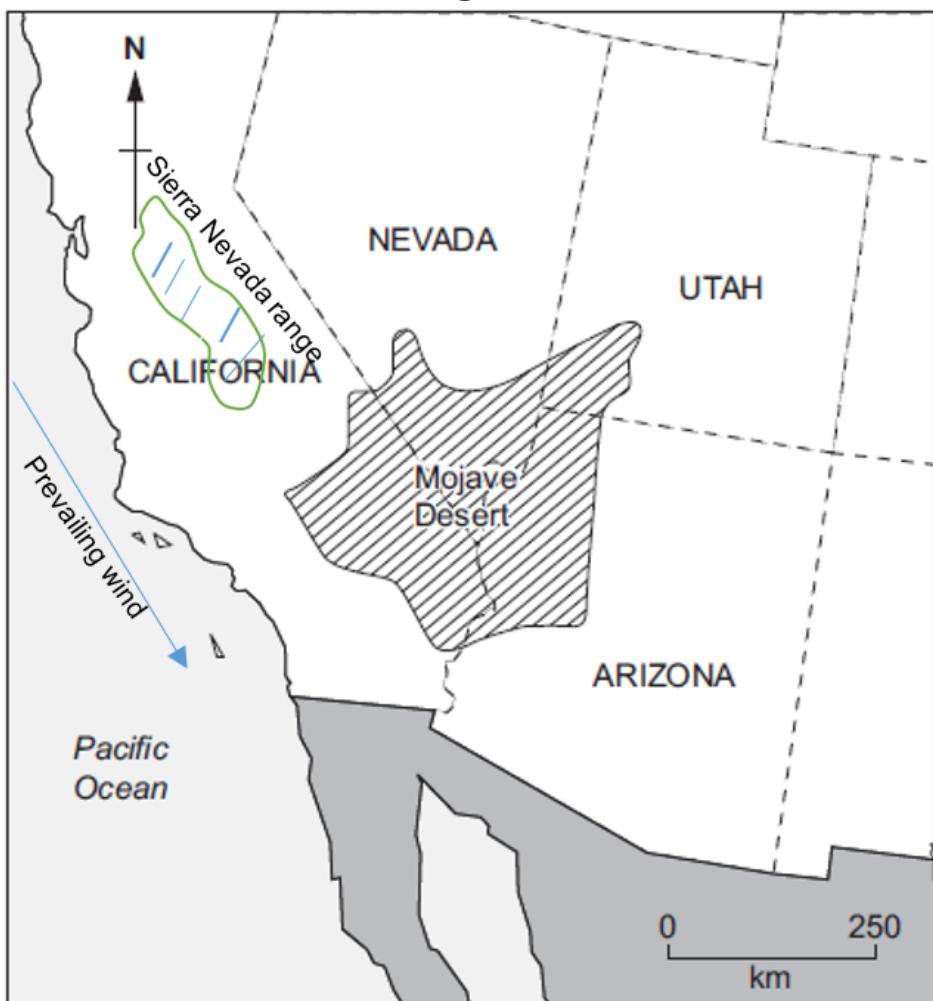
- (i) Study **Fig. 7** and identify the weathering process that has taken place. [1]
- (ii) Study **Fig. 7** and explain how climatic conditions have played an important role in the disintegration of Angkor Wat Temple. [3]

SECTION C: (8 marks)**Open-response Questions (1 x 8 marks)**

Answer the question on a fresh piece of **Writing Paper**.

6. Figure 8 shows the location of Mojave Desert.

Fig. 8



Source: IGCSE November 2019

(a) Study and use **Fig. 8** to explain how Mojave Desert is formed. [2]

(b) With the use of **2 plant species** – one from tropical desert and the other from tropical rainforest, explain how and why these 2 plant species differ. [6]

END OF PAPER